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*Admitted only in Maryland
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•Practice Limited to
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May 28, 2004

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Art Unit 2822

Re: U.S. Utility Patent Application
Application No. 09/849,537; Filed: May 7, 2001
For: **Die-Up Ball Grid Array Package with a Heat Spreader and Method
for Making the Same**

Inventors: *Zhang et al.*
Our Ref: 1875.0370000

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Sixth Supplemental Information Disclosure Statement;
2. Form PTO-1449 (4 sheets) citing documents (**AA1-AO1, AR1, AA2-AK2, AA3-AK3 and AA4-AJ4**);
3. Copies of the cited documents listed on Form PTO-1449; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
May 28, 2004
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey S. Weaver
Attorney for Applicants
Registration No. 45,608

JSW:kim
Enclosures

269576.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Zhang *et al.*

Appl. No. 09/849,537

Filed: May 7, 2001

For: **Die-Up Ball Grid Array Package
with a Heat Spreader and Method
for Making the Same**

Confirmation No.: 7984

Art Unit: 2822

Examiner: Lewis, Monica

Atty. Docket: 1875.0370000

Sixth Supplemental Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. ++

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$ _____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign

application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

5. Document AP1 was cited in search report by a foreign patent office in a foreign application. Submission of an English language version of the search report (AS1) is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

6. A concise explanation of the relevance of the non-English language document(s) appears below:

7. Copies of the documents are submitted herewith.

8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



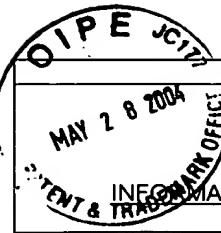
Jeffrey S. Weaver
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Date: 5-28-04

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 FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT <i>MAY 28 2004</i>				ATTY. DOCKET NO. 1875.0370000	APPLICATION NO. 09/849,537		
				FIRST NAMED INVENTOR Zhang <i>et al.</i>			
				FILING DATE May 7, 2001	ART UNIT 2822		
				U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,611,238	09/1986	Lewis <i>et al.</i>			07/1985
	AB1	5,065,281	11/1991	Hernandez <i>et al.</i>			02/1990
	AC1	5,173,766	12/1992	Long <i>et al.</i>			06/1990
	AD1	5,208,504	05/1993	Parker <i>et al.</i>			12/1990
	AE1	5,216,278	06/1993	Lin <i>et al.</i>			03/1992
	AF1	5,285,352	02/1994	Pastore <i>et al.</i>			07/1992
	AG1	5,294,826	03/1994	Marcantonio <i>et al.</i>			04/1993
	AH1	5,366,589	11/1994	Chang			11/1993
	AI1	5,394,009	02/1995	Loo			07/1993
	AJ1	5,409,865	04/1995	Karnezos			02/1994
	AK1	5,433,631	07/1995	Beaman <i>et al.</i>			06/1994
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	11-102989	04/13/1999	Japan			Yes No
	AM1	10-247702	09/14/1998	Japan			Yes No
	AN1	2 803 098	06/29/2001	France			Yes No
	AO1	0 573 297 A2 & A3	12/8/1993	Europe			Yes No
	AP1						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	1	Copy of International Search Report for European Application Number 03006574.2, mailed March 8, 2004, 3 pages.				
	AS	1					
	AT	1					
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1875.0370000	APPLICATION NO. 09/849,537
FIRST NAMED INVENTOR Zhang <i>et al.</i>	
FILING DATE May 7, 2001	ART UNIT 2822

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,541,450	07/1996	Jones <i>et al.</i>			11/1994
	AB2	5,552,635	09/1996	Kim <i>et al.</i>			01/1995
	AC2	5,650,659	07/1997	Mostafazadeh <i>et al.</i>			08/1995
	AD2	5,717,252	02/1998	Nakashima <i>et al.</i>			12/1996
	AE2	5,856,911	01/1999	Riley			11/1996
	AF2	5,866,949	02/1999	Schueller			10/1997
	AG2	5,907,903	06/1999	Ameen <i>et al.</i>			01/1998
	AH2	5,920,117	07/1999	Sono <i>et al.</i>			03/1997
	AI2	5,949,137	09/1999	Domadia <i>et al.</i>			09/1997
	AJ2	5,986,340	11/1999	Mostafazadeh <i>et al.</i>			05/1996
	AK2	5,982,621	11/1999	Li			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2						Yes No
	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No

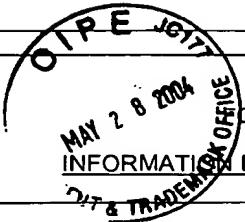
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AS	2	
	AT	2	

EXAMINER

DATE CONSIDERED

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 <p>FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT</p>	ATTY. DOCKET NO. 1875.0370000	APPLICATION NO. 09/849,537
	FIRST NAMED INVENTOR Zhang <i>et al.</i>	
	FILING DATE May 7, 2001	ART UNIT 2822

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA3	6,002,147	12/1999	lovadsky <i>et al.</i>			05/1998
AB3	6,011,694	01/2000	Hirakawa			08/1997
AC3	6,060,777	05/2000	Jamieson <i>et al.</i>			07/1998
AD3	6,084,297	07/2000	Brooks <i>et al.</i>			09/1998
AE3	6,201,300 B1	03/2001	Tseng <i>et al.</i>			08/1998
AF3	6,246,111 B1	06/2001	Huang <i>et al.</i>			01/2000
AG3	6,288,444 B1	09/2001	Abe <i>et al.</i>			06/1999
AH3	6,313,521 B1	11/2001	Baba			11/1999
AI3	6,369,455 B1	04/2002	Ho <i>et al.</i>			04/2000
AJ3	6,462,274 B1	10/2002	Shim <i>et al.</i>			10/1999
AK3	6,472,741 B1	10/2002	Chen <i>et al.</i>			07/2001

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL3						Yes No
AM3						Yes No
AN3						Yes No
AO3						Yes No
AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	3	
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1875.0370000APPLICATION NO.
09/849,537FIRST NAMED INVENTOR
Zhang *et al.*FILING DATE
May 7, 2001ART UNIT
2822

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	6,525,942 B2	02/2003	Huang <i>et al.</i>			05/2001
	AB4	6,528,892	03/2003	Caletka <i>et al.</i>			06/2001
	AC4	6,541,832 B2	04/2003	Coyle			01/2001
	AD4	6,545,351 B1	04/2003	Jamieson <i>et al.</i>			03/2000
	AE4	6,552,266 B2	04/2003	Carden <i>et al.</i>			01/2001
	AF4	6,552,428 B1	04/2003	Huang <i>et al.</i>			10/1999
	AG4	6,552,430 B1	04/2003	Perez <i>et al.</i>			01/2002
	AH4	6,563,712 B2	05/2003	Akram <i>et al.</i>			05/2002
	AI4	6,583,516 B2	06/2003	Hashimoto			11/2001
	AJ4	2003/0138613 A1	07/2003	Thoman <i>et al.</i>			01/2002
	AK4						11/1998

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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